Water at High Dynamic Pressures and Temperatures

William J. Nellis

Department of Physics, Harvard University, 17 Oxford Street, Cambridge, MA, 02138, USA

Reprint requests to Dr. W. J. Nellis. Fax: +1 617 496 5144. E-mail: nellis@physics.harvard.edu

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Dedicated to Professor Gérard Demazeau on the occasion of his 65th birthday

This paper is dedicated to Prof. G. Demazeau for his many contributions to the study of materials at high pressures and to the International Association for the Advancement of High-Pressure Science and Technology. This paper discusses two of Prof. Demazeau's interests, water and high pressures. Experimental measurements are reviewed for water compressed dynamically from pressures of a few GPa up to 1.4 TPa and temperatures from 100 K up to 50000 K.

Key words: Water, Chemical Ionization, Hugoniot, Multiple-shock Compression